Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings,

of claims in the application.

Listing of claims:

1.   (**currently amended**) A method for processing data through a system for

accessing and transmitting different data frames in a digital transmission network,

wherein the system includes a user-network interface (UNI), which is used to connect to

a user's network, a network-network interface (NNI), which is used to connect to ~~said~~

the digital transmission network to transfer data, a mapping/demapping device, a virtual

interface device, which couples with the UNI and couples with the NNI via the

mapping/demapping device, and a ~~control device~~ **data processing and dispatching**

device, which couples with the virtual interface device to control ~~it~~ to access and

transmit the data frames, ~~said~~ **the** method comprising the following steps:

      ~~the virtual interface device~~ classifying the data frames **by the virtual**

interface device; ~~and~~

      transmitting, via the data processing and dispatching device, the

classified data frames from the virtual interface device to a processing device for

processing;

      ~~the virtual interface device~~ **obtaining, by the virtual interface device,**

processed data frames via the data processing and dispatching device and

outputting the **processed** data frames to ~~corresponding device interfaces~~ **the UNI or**

NNI.

2.   (**currently amended**) A method according to claim 1, wherein ~~said control~~

~~device includes a data processing and dispatching devce, which couples with~~

~~said virtual interface device;~~ **the processing device includes** at least one of a virtual

private device, a virtual bridge device and a **Resilient Packet Ring** ~~RPR~~ device~~, which~~

~~couples with said data processing and dispatching device; said method also~~

~~comprises the step of the virtual bridge device switching the data frames~~.

3.   (**currently amended**) A method according to ~~claim 2~~ **claim 15**, further

comprising the step of ~~the virtual private device~~ processing the data frames **by the**

virtual private device.

4.   (**currently amended**) A method according to claim 3, wherein the step of ~~the~~

~~virtual private device~~ processing the data frames **by the virtual private device**

comprises the following step: relaying and/or converging and/or ~~deconverging~~

diverging the data frames.

5.   (**currently amended**) A method according to ~~claim 2~~ **claim 15**, **further**

comprising the step of ~~wherein the step of the virtual private device processing~~

~~the data frames also comprises the following step: the RPR device~~ processing the

data frames **by the Resilient Packet Ring device**.

6.   (**currently amended**) A method according to claim 5, wherein the step of ~~the~~

~~RPR device~~ processing the data frames **by the Resilient Packet Ring device**

comprises the following step: terminating sending and/or relaying and/or beginning to

send the data frames.

7.   (**currently amended**) A method according to claim 3, **further comprising the**

step of ~~wherein the step of the RPR device processing the data frames also~~

~~comprises the following step: the RPR device~~ processing the data frames **by the**

Resilient Packet Ring device.

8.   (**currently amended**) A method according to claim 7, wherein the step of ~~the~~

~~RPR device~~ processing the data frames **by the Resilient Packet Ring device**

comprises the following step: terminating sending and/or relaying and/or beginning to

send the data frames.

9.   (**currently amended**) A method according to ~~claim 1~~ **claim 2**, wherein ~~said~~

~~control device includes a data processing and dispatching device, which couples~~

~~with said virtual interface device; at least one of a virtual private device, a virtual~~

~~bridge device and a RPR device, which couples with said data processing and~~

~~dispatching device; said method also comprises~~ **further comprising** the step of ~~the~~

~~virtual private device~~ processing the data frames **by the virtual private device**.

10.   (**currently amended**) A method according to claim 9, wherein the step of ~~the~~

~~virtual private device~~ processing the data frames **by the virtual private device**

comprises the following step: relaying and/or converging and/or ~~deconverging~~

diverging the data frames.

11.   (**currently amended**) A method according to ~~claim 1~~ **claim 2**, wherein **further**

comprising the step of ~~the virtual private device processing the data frames also~~

~~comprises the following step: the RPR device~~ processing the data frames **by the**

Resilient Packet Ring device.

12.   (**currently amended**) A method according to claim 11, wherein the step of ~~the~~

~~RPR device~~ processing the data frames **by the Resilient Packet Ring device**

comprises the following step: terminating sending and/or relaying and/or beginning to

send the data frames.

13.   (**currently amended**) A method according to claim 9, wherein the step of the

RPR device processing the data frames also comprises the following step: ~~the RPR~~

~~device~~ processing the data frames **by the Resilient Packet Ring device**.

14.   (**currently amended**) A method according to claim 13, wherein the step of ~~the~~

~~RPR device~~ processing the data frames **by the Resilient Packet Ring device**

comprises the following step: terminating sending and/or relaying and/or beginning to

send the data frames.

15.   (new) A method according to claim 2, further comprising the step of

switching the data frames by the virtual bridge device.